

AWARD/ **MODIFICATION**

3a. ISSUED BY:

OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO

536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588

1. INSTRUMENT TYPE Grant

3b. CFDA: 12.300

2. AUTHORITY:

10 USC 2358, 31 USC 6304

3c. DUNS NUMBER:

N00014-95-1-1302

5. MODIFICATION NO.: A00004

6. MODIFICATION TYPE: 7. PR NO.: Administrative

02PR07507-00

PAGE 1 of 5

8. ACTIVITY/AGENCY PROPOSAL NO.:

9. RECIPIENT PROPOSAL NO.: N/A 14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):

10. PROPOSAL DATE: N/A

11. ACTIVITY TYPE: Research

12. PROGRAM TYPE: N/A

13. ISSUED TO 13a. ADDRESS:

4. AWARD NO.:

13b. CAGE: 4B877

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

13c. EDI/EFT NUMBER:

4301AO

Same as block #13

13d. BUSINESS OFFICE CONTACT:

13e. TELEPHONE NUMBER: 13f. EMAIL ADDRESS:

15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE:

Manufacturable Power Switching Devices

16. FUNDING ACTIVITY/AGENCY SHARE RECIPIENT SHARE TOTAL 17. CURRENT FUNDING PERIOD N/A THROUGH \$.00 PREVIOUSLY OBLIGATED: N/A OBLIGATED BY THIS ACTION: \$.00 TOTAL OBLIGATED ON AWARD: 8. PERIOD OF PERFORMANCE \$.00 29-SEP-1995 FUTURE FUNDING: THROUGH \$.00 31-DEC-2000 GRANT TOTAL: \$.00

19. ACCOUNTING AND APPROPRIATION DATA:

See attached Financial Accounting Data Sheet(s)

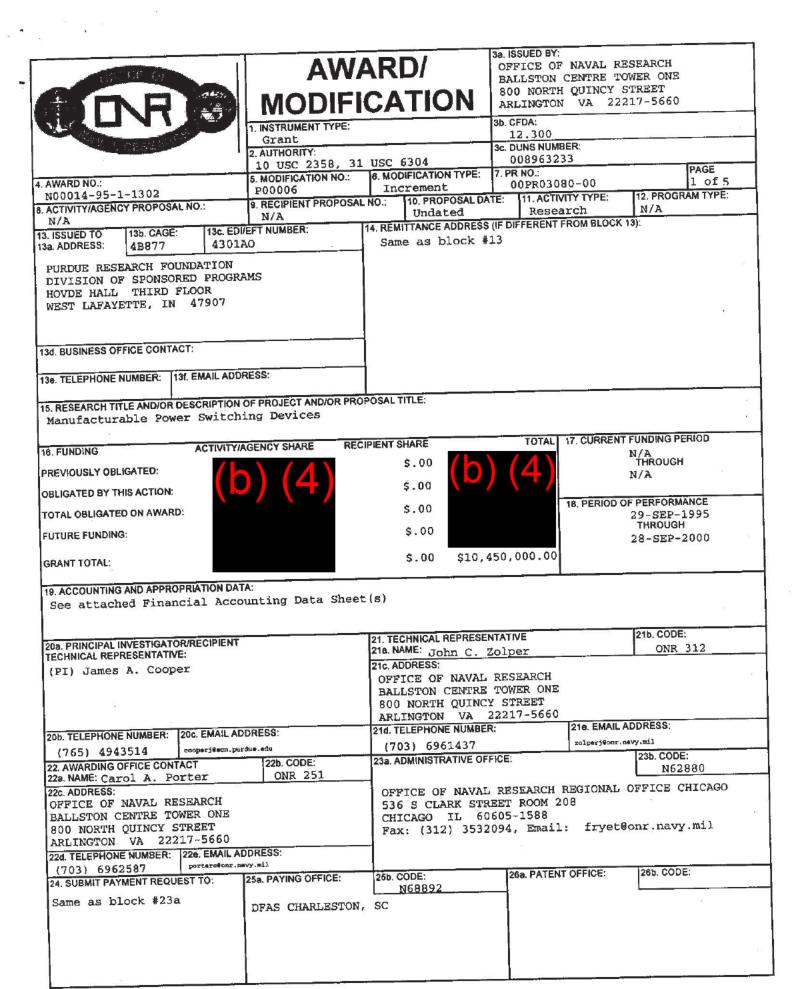
20a. PRINCIPAL INVESTIGATOR/RECIPIEN	Γ	21. TECHNICAL REPRESENT		21b. CODE:
TECHNICAL REPRESENTATIVE:		21a. NAME: John C. Zo	lper	ONR 312
(PI) James A. Cooper		21c. ADDRESS:		
		OFFICE OF NAVAL R BALLSTON CENTRE T 800 NORTH QUINCY ARLINGTON VA 22	OWER ONE STREET 217-5660	
20b. TELEPHONE NUMBER: 20c. EMAIL A	DDRESS:	21d. TELEPHONE NUMBER:	21e. El	MAIL ADDRESS:
(765) 4943514 cooperj@ecn.g	urdue.edu	(703) 6961437	zolper	j@onr.navy.mil
22. AWARDING OFFICE CONTACT 22a. NAME: Yolanda Williams	22b. CODE: ONR 245	23a. ADMINISTRATIVE OFFIC	E:	23b. CODE: N62880
22c. ADDRESS:		1		
OFFICE OF NAVAL RESEARCH R CHICAGO 536 S CLARK STREET ROOM 20 CHICAGO IL 60605-1588 22d.TELEPHONE NUMBER: 22e.EMAIL A	8	OFFICE OF NAVAL F 536 S CLARK STREE CHICAGO IL 6060 Fax: (312) 353209	T ROOM 208 05-1588	NAL OFFICE CHICAGO
(312) 8865423 williay@onr.	navy.mil			
24. SUBMIT PAYMENT REQUEST TO:	25a. PAYING OFFICE:	25b. CODE: N68892	26a. PATENT OFFICE	26b. CODE: N00014
Same as block #23a	DFAS CHARLESTON,	SC	OFFICE OF NAV ATTN: ONR 000 BALLSTON CENT 800 NORTH QUI ARLINGTON VA	CC FRE TOWER ONE

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27. SPECIAL INSTRUCTIONS:				AUUUU4	2 01 3
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See "Special Requirements" At	tachmen	C .			
28. DELEGATIONS: The administration duties listed	d below have	been delegated to the a	dministrative office (b	lock 23a). Upon request the awarding	office contact (block 22)
will make their full text available. Please direct ques	dions to the c	http://	www.onr.navy	r.mil/02/024/offices.ht	tm
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29. TERMS AND CONDITIONS: The following term	s and conditi	ons are incorporated her	ein by reference wi h	the same force and effect as if they w	vere given in full text.
Upon request the awarding office contact named in DOCUMENT	block 22 will URL	make their full text availa	ble, or they can be fo	ound at the specified URL.	CLAUSES
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30. OPTIONS OPTION NO. AMOUNT			F	PERIOD	
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31. REPORTS: The following reports must be subm					
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AWARD NO.	SPECIAL REQUIREMENTS	MODIFICATION NO.	PAGE
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AWARD NO.	AWARD/MODIFICATION	MODIFICATION NO.	PAGE 2 of 5
N00014-95-1-1302	Attribute	1200000	
27. SPECIAL INSTRUCTIONS:	Attachment		
See "Special Requirements"	Accacimient		
	isted below have been delegated to the administrative of	ice (block 23a). Upon request the	awarding office contact (block 22)
28. DELEGATIONS: The administration duties will make their full text available. Please direct of	prestions to the contacts @: http://www.onr.n	avy.mil/02/024/offi	ces.htm
Full Delegation			
	terms and conditions are incorporated herein by reference	e with the same force and effect a	s if they were given in full text.
29. TERMS AND CONDITIONS: The following	terms and conditions are incorporated herein by reference and in block 22 will make their full text available, or they can	n be found at the specified URL.	CLAUSES
DOCUMENT	URL		
30. OPTIONS OPTION NO. AMOU	NT	PERIOD	
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Grant Distribution

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AWARD/

3a. ISSUED BY: OFFICE OF NAVAL RESEARCH

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	1. INSTRUMENT TYPE:	20 20		3b. CFD			V-7-2-0-5
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4. AWARD NO.: N00014-95-1-1302	5. MODIFICATION NO.: P00007	Adn	OFFICATION TYPE: ninistrative		O.: PR03080-01	PAGE 1 of	5
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A	9. RECIPIENT PROPOS N/A		10. PROPOSAL D. N/A		l. ACTIVITY TYPE: Research	12. PROGRAM TYPE N/A	: :
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13d. BUSINESS OFFICE CONTACT:	INDRESS:						
IS. EMPLE	ODKESS.						
15. RESEARCH TITLE AND/OR DESCRIPTI Manufacturable Power Swit		OPOSAL TIT	rle:				
16. FUNDING ACTIVIT	TY/AGENCY SHARE REG	CIPIENT SH	ARE	TC	TAL 17. CURREN	T FUNDING PERIOD	
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FUTURE FUNDING:			W75 47500			29-SEP-1995	
GRANT TOTAL:			.00 \$10,45	50,000.	.00	THROUGH 31-DEC-2000	
19. ACCOUNTING AND APPROPRIATION D	ATA:				. 1		
20a. PRINCIPAL INVESTIGATOR/RECIPIEN TECHNICAL REPRESENTATIVE:	Т		VICAL REPRESENT		***	21b. CODE:	
(PI) James A. Cooper		21a. NAME 21c. ADDR	John C. Zo	olper		ONR 312	
(11) danisa sii deepel		OFFIC BALLS 800 N	E OF NAVAL 1 TON CENTRE 1 ORTH QUINCY GTON VA 2	TOWER O	ONE		
20b. TELEPHONE NUMBER: 20c. EMAIL A		Delicated to the control of the cont	PHONE NUMBER:		21e. EMAIL A	DDRESS:	
(765) 4943514 cooperjeech.	22b. CODE:		6961437	OF:	golperjeonr.n		
22a NAME: Carol A. Porter	ONR 251	Z38. AUMI	NISTRATIVE OFFIC	CE:		23b. CODE: N62880	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660 22d. TELEPHONE NUMBER: 22e, EMAIL A (703) 6962587		536 S CHICA	E OF NAVAL : CLARK STRE GO IL 606 (312) 35320	ET ROO! 05-1588	M 208	OFFICE CHICAGO	
24. SUBMIT PAYMENT REQUEST TO:	25a. PAYING OFFICE:	25b. CODE	The second secon	26a. PAT	ENT OFFICE:	26b. CODE:	
Same as block #23a	DFAS CHARLESTON,	•	892	1			

N00014-95-1-1302 27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment 28. DELEGATIONS: The administration cuties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22a) and the administrative office (block 23a).
28 DELEGATIONS: The administration cuties listed below have been delegated to the administrative office (block 22s). Upon request the quadries office contest block 22s.
Full Delegation
29. TERMS AND CONDITIONS: The folk wing terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL. DOCUMENT URL CLAUSES
DOCUMENT URL CLAUSES
30. OPTIONS OPTION NO. ANIOUNT PERIOD (1)
(2)
(1) (2) (3) (4)
31. REPORTS: The following reports must be submitted to the indicated addresses, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298. Report Documentation Page, accompanying them. Unless otherwise stated in the execution of the project.
Block 12a of the SF298 as follows: "Approved for Public Release, distribution is Unlimited". ADDRESSEE REPORT TYPE COPIES
ON ES
32. FOR THE RECIPIENT. 33. FOR THE UNITED STATES OF AMERICA
326 BISNATURE OF PERSON AUTHOR ZED TO SIGN. 339. SIGNATURE OF AWARDING OFFICER
NA SIGNATURE NOT REJUIRED ON THIS AWARD (b) (6)
326 NAME AND THEE OF SIGNER 336 DATE SIGNED 33b. NAME AND TITLE OF AWARD OFFICER 33c. DATE SIGNED Lambert C. McCullough 27-JUL-2000

1. CONTRACT	NUMBER (CRITI	CAL)	2. SPIIN (CRIT	(ICAL)		3. MOD	(CRITICA	AL)		4. PR NUM	BER				PAGE 3 OF 5
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	(CRITICAL)	APPROPRIATION (CRITICAL)	SUBHEAD (CRITICAL)	CLA	PARM	KFM	5A	AAA (CRITICAL)	11	PAA	PROJ	ST CODE	POLE	AMOUNT (CRITICAL)	USE ONLY REF DOC/ACRN
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						8	OR FISC	CAL DATA AND S	NATU	NC				for COMPTROL	LER, ONR CONTRACT REVIEWED
DATE:						DATE:			A					, , , , , , , , , , , , , , , , , , ,	

1. CONTRACT NUI NO 0014 - 95 - 1	MBER (CRITICAL)	2. SPIIN (CRITICAL)	3. MOD (CRITICAL)	4. PR NUMBER	***	~-	PAGE 4 OF 5
		<u> </u>	P00007	00PR03080-01			
5. 6. CLIN/SLIN ACR	RN CAL)	ACC	COUNTING CITATION	_	8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN
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				GRAND TOTAL	\$.00		
PREPARED/AUTHORIZ	ED BY:			COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY DATE:	for COMPTROLLER		T REVIEWED

AWARD NO.						S	PF	<u>:ΙΔΙ</u>	R	EQU	IRF	ME	NTS	\Box	MODIFIC	ATION	NO.	· ·	PAC	GE
N00014-95-1-	130.	2						<u> </u>		_40	11.7.	71 1-1	410		P0000	7			5 c	of 5
The purpose 2000.	of	this	PR	is	to	provid	le a	no c	ost	exten	sion	for	grant	NOO	014951	1302	thro	iah 31	Dec	
2000.	0.		* * *			P10.1.			.000		0.1011		224110	1,00			0.1.2.0	ag 01		

Award Completion Statement

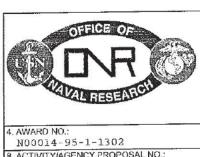
FROM: (Award Administration Office) Office of Naval Research, Chicago Regional Office	ce	2a. AWARD NUMBER N00014-95-1-1302	
536 South Clark Street		2b. LAST ADMINISTRATION M	ODIFICATION NUMBER
Room 208		A00004	OBIT ISHTION HOMBEIT,
Chicago, IL 60605-1509		2c. LAST AWARDING AGENCY	MODIFICATION NUMBER
	(: (312) 353-2094	P00007	
3. TO: (Name and Address of Awarding Agency or F	ayment office, as applicable)	4. NAME OF AWARDEE	
OFFICE OF NAVAL RESEARCH	a)	Purdue Research Foundation	on
ATTN: ONR CODE 251, Elizabeth Ford		WEST LAFAYETTE, IN	
800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660	2	5. EXCESS FUNDS (ULO)	
ANLINGTON, VA 22217-3000		40.00	
		\$0.00	
6a. IF FINAL PAYMENT HAS BEEN MADE, COMPLETE ITEMS 6b., AND 6c.	6b. VOUCHER NUMBER		6c. DATE
7a. IF FINAL APPROVED INVOICE FORWARDED TO D			7c. DATE FORWARDED
OF ANOTHER ACITIVITY AND STATUS OF PAYMENT UNKNOWN, COMPLETE ITEMS 7b, AND 7c.			
8. REMARKS	CAMIS	STARS	
Total amount obligated: \$10,4	49,588.81 \$1	10,449,588.81	
	1	10,449,588.81	
Excess funds to deobligate (ULO):	\$0.00	\$0.00	
(===)	,	40.00	
#			
9a. ALL ADMINISTRATION OFFICE ACTIONS REQUIRED THE CASE OF A PRICE REVISION CONTRACT	ED HAVE BEEN SATISFACTOR	ILY COMPLETED. THIS INCLUDES	S FINAL SETTLEMENT IN
9b. TYPED NAME OF RESPONSIBLE OFFICIAL	9c SIGNATURE		9d, DATE
JOHN CHIAPPE	(h) (6)		10-Apr-2002
Administrative Grant Officer			10-Apr-2002
10a. ALL PURCHASING OFFICE ACTIONS REQUIRED	FOR PURCHASING OFFICE O	SEACTORILY ACCOMPLISHED AS	MARD EILE OF THIS OFFICE
IS HEREBY CLOSED AS OF:	TRAVE DEEN FOLET AND SATE		WARD FILE OF INIS OFFICE
r —			
DATE SHOWN IN ITEM 9d ABOVE			
DATE SHOWN IN ITEM 10e BELOW. (Chec	k this box only if final completion of any	significant nurchasing office action extends i	more than three months
beyond close-out date shown in item 9d, above. In such cases, submit	a copy of the completed form upon fina	al accomplishment of all purchasing office ac	tions to the award administration offic
(Upon receipt, the award administration office shall extend its contract	file close-out date accordingly.))		2
10b. REMARKS			All solls are see
10c. TYPED NAME OF RESPONSIBLE OFFICIAL	10d. SIGNATURE		10e. DATE
	i i		1

TABLE OF CONTENTS

Master Grant File

- Page 1 Grant and amendments
- Page 2 Correspondence (chronologically filed with oldest on bottom)
- Page 3 Grant Distribution Document
 Route Sheet with legal comment attached
 DD 2566
- Page 4 (listed from bottom up)
 One signed copy of proposal
 Copy of BAA that appeared in CBD
 Grantees' certification
 Clearance and budgets
 One copy of PR

NOTE: PLEASE KEEP THIS ON TOP OF PAGE 1 OF GRANT FOLDER



AWARD/

3a. ISSUED BY: OFFICE OF NAVAL RESEARCH REGIONAL

ATTN: ONR OOCC

BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660

A THE	MODIFI	CA	TION	OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588				
	1. INSTRUMENT TYPE:			Bb. CFDA:				
AVAL RESEARCH	Grant			12.300	BED.			
	2. AUTHORITY: 10 USC 2358, 31	tisc	- 1	Bc, DUNS NUM	BER:			
4. AWARD NO.:	5. MODIFICATION NO.:	6. MOD	IFICATION TYPE:	7, PR NO.:		PAGE		
N00014-95-1-1302	A00004	1	inistrative	02PR075		12. PROGRAM TYPE:		
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A	9. RECIPIENT PROPOSAL N/A		10. PROPOSAL DATE N/A TTANCE ADDRESS (I	Rese		N/A		
13, ISSUED TO 13b, CAGE: 13c, EDM 13a, ADDRESS: 4B877 4301A			e as block #1		TROM BEOOK	10,		
PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRA HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907	AMS							
13d. BUSINESS OFFICE CONTACT:								
13e. TELEPHONE NUMBER: 13f. EMAIL ADDR	ESS:							
15. RESEARCH TITLE AND/OR DESCRIPTION O Manufacturable Power Switchi	OF PROJECT AND/OR PROF ing Devices	POSAL TI	TLE:					
16. FUNDING ACTIVITY/AC	GENCY SHARE RECI	PIENT SH	IARE	TOTAL	17. CURRENT	FUNDING PERIOD		
		Ś	5.00	/ 4 \		N/A THROUGH		
PREVIOUSLY OBLIGATED: OBLIGATED BY THIS ACTION:	(4)		00.00	(4)		N/A		
TOTAL OBLIGATED ON AWARD:		Ś	, 00		18. PERIOD O	F PERFORMANCE		
FUTURE FUNDING:	10	-	5.00			29-SEP-1995 THROUGH		
GRANT TOTAL:		\$	\$.00 \$10,445	9,588.81		31-DEC-2000		
19. ACCOUNTING AND APPROPRIATION DATA See attached Financial Accou	: inting Data Sheet	(s)		1				
20a. PRINCIPAL INVESTIGATOR/RECIPIENT			INICAL REPRESENTA			21b. CODE:		
TECHNICAL REPRESENTATIVE:		21a. NAN 21c. ADE	ME: John C. Zo	rber		ONR 312		
(PI) James A. Cooper		BALL:	CE OF NAVAL RISTON CENTRE TO NORTH QUINCY RIGTON VA 22	OWER ONE STREET				
20b. TELEPHONE NUMBER: 20c. EMAIL ADDR	RESS:		EPHONE NUMBER:		21e. EMAIL AL	DDRESS:		
(765) 4943514 ccoperjsecs.purdu) 6961437		golperjšonr.ma			
22. AWARDING OFFICE CONTACT 22a. NAME: Yolanda Williams	22b. CODE: ONR 245	23a. ADN	AINISTRATIVE OFFICI	E:		23b. CODE: N62880		
22c. ADDRESS: OFFICE OF NAVAL RESEARCH REG. CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 22d. TELEPHONE NUMBER: 22e. EMAIL ADD	RESS:	536 CHIC	CE OF NAVAL R S CLARK STREE AGO IL 6060 (312) 353209	T ROOM 20 5-1588		OFFICE CHICAGO		
(312) 8803423	ia. PAYING OFFICE:	25b, CO		26a. PATENT	OFFICE:	26b. CODE:		
Game ag block #23g	DFAS CHARLESTON,	N68892 OFFICE OF				OF NAVAL RESEARCH		

AWARD NO.	AWARD/MODIFICATION	MODIFICATION NO.	PAGE 2 of 5
N00014-95-1-1302	AWARDAMODITION	A00004	2 01 3
27. SPECIAL INSTRUCTIONS: See "Special Requirements" At	tachment		-
See Special Requirements			
An DELECATIONIC. The administration duties listen	d below have been delegated to the administrative office	te (block 23a). Upon request the awarding	office contact (block 22)
will make their full text available. Please direct ques	slions to the contacts @: http://www.onr.na	avy.mil/02/024/offices.ht	m
Full Delegation			
}			
29. TERMS AND CONDITIONS; The following term	ns and conditions are incorporated herein by reference	with the same force and effect as if they we	era given in full text.
Upon request the awarding office contact named in	block 22 will make their full text available, or they can URL	be found at the specified URI	CLAUSES
DOCUMENT	O.C.		
ODTION NO. AMOUNT		PERIOD	
30. OPTIONS OPTION NO. AMOUNT (1)			
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(4) 31 REPORTS: The following reports must be sub-	mitted to the indicated addressees, in the indicated qua	ntities, within 90 days following the expirati	on or termination of
the project. Final Technical Reports must have a S Block 12a of the SF298 as follows: "Approved for f	F798. Report Documentation Page, accompanying the	m. Unless otherwise stated in the award/m	odification, complete
AODRESSEE	REPORT TYPE		COPIES
See block #21 (Frequency)	Final Technical Report	w/ SF298	1
See Block #21 (Flequency)	Performance/Technical	Report (As Required) w/	1.
	SF298		
See block #23a	Report of Inventions a	nd Subcontracts - DD 882	1 1
M-17/19/2019 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1	Performance/Technical	- Transmittal letter on Report (As Required)	1
	Final Financial Status	Report - SF269A - If	1
	advances used		1
See block #26a	Report of Inventions a	nd Subcontracts - DD 882	1.
	Į.		
DEFENSE TECHNICAL INFORMATION	CENTER Final Technical Report	w/ SF298	1
8725 JOHN J KINGMAN ROAD STE	0944 Performance/Technical	Report (As Required) w/	1
FORT BELVOIR VA 22060-6218	SF298		
NAVAL RESEARCH LABORATORY	Final Technical Report	w/ SF298	1
ATTN: CODE 5227		Report (As Required) w/	1
4555 OVERLOOK AVENUE SW WASHINGTON DC 20375-5320	SF298		1
		HTER OTATES OF AMERICA	
32 FOR THE RECIPIENT 32a. SIGNATURE OF PERSON AUTHORIZED TO		ITED STATES OF AMERICA E OF AWARDING OFFICER	
		(b) (C)	
N/A - SIGNATURE NOT REQUIR	ED ON THIS AWARD	(D)(D)	
32b, NAME AND TITLE OF SIGNER	32c, DATE SIGNED 33b, NAME AND	TITLE OF AWARD OFFICER	33c. DATE SIGNED
OCU, WANT WAS THEE OF SIGNER	John Chi		29-JAN-2002

1. CONTRACT NUMBER (CRITICAL) 2. SPIIN (CRITICAL)							CRITICA		4. PR NUMBER						PAGE 3 OF 5
	95-1-130	Annual I vice	,			A00				02PR	07507-00)			
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DATE:						DATE	Ξ.								

			2. SPIIN (CRITICAL)	3. MOD (CRITICAL)	4. PR NUMBER PAG				
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DATE:					DATE:				

	SPECIAL REQUIREM	NTS	MODIFICATION NO.	PAGE 5 of 5
AWARD NO. NO0014-95-1-1302	SPECIAL REGUITEM		A00004	3013
				W. 20 800
The purpose of this modificat under this award.	ion is to deobligate \$411.19.	No furthe	er funding will be	provided
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GRANT MODIFICATION

Granting Agency:

Department of the Navy Office of Naval Research Chicago Regional Office Federal Building, Room 208

Attn: Betty L. Brown Chicago, IL 60605-1509

Grant Information:

Grant No: N00014-95-1-1302

Modification: A00003 ACO Code: N62880 S.O. Code: 342 Cage Code: 4B877

Disbursing Code: N68892

P.I.: James Cooper

Grant Recipient:

PURDUE RESEARCH FOUNDATION

Division of Sponsored Programs

Hovde Hill Third floor West Lafayette, IN 47907

Funding Amount: Appropriation Data: Increase/Decrease: \$ -0-

N/A

Authority:

U.S.C. 2358, as amended; 31 U.S.C. 6304

Modification Purpose: The purpose of this modification is to extend the period of performance of Grant N00014-95-1-1302 at no additional cost to the Government.

PERIOD of the Grant Schedule is hereby revised as follows:

"PERIOD: The research work under this grant shall be conducted through 31 DEC 00. A final report will be prepared, submitted, reproduced and distributed by sixty (60) days thereafter, unless the grant is extended, in which case, the final report will be prepared in accordance with the terms of such extension."

All terms and conditions remain unchanged.

For The Office of Naval Research



Effective Date: 09 Aug 2000

Agreement No: N00014-95-1-1302

Modification A00003

Page 1 of 1



AWARD/

3a. ISSUED BY: OFFICE OF NAVAL RESEARCH

造	MODIF	ICATION		BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660				
	1. INSTRUMENT TYPE:		3b, CFDA:					
AVAL RESEARCH	Grant		12,300 3c, DUNS NU					
	2. AUTHORITY: 10 USC 2358, 3	31 USC 6304	008963					
4. AWARD NO.: N00014-95-1-1302	5. MODIFICATION NO.: P00007	6. MODIFICATION TYPE Administrativ		3080-01	PAGE 1 of 5			
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A	9. RECIPIENT PROPOSA N/A	AL NO.: 10. PROPOSAL N/A		TIVITY TYPE: earch	t2. PROGRAM TYPE: N/A			
13. ISSUED TO 13b. CAGE: 13c.	EDI/EFT NUMBER: 801AO ON OGRAMS	14. REMITTANCE ADDRE		T FROM BLOCK	13):			
13d. BUSINESS, OFFICE CONTACT: 13e. TELEPHONE NUMBER: 13f. EMAIL A	DDRESS:	-						
15. RESEARCH TITLE AND/OR DESCRIPTI Manufacturable Power Swit	ON OF PROJECT AND/OR PRO ching Devices	OPOSAL TITLE:						
16. FUNDING ACTIVIT	TY/AGENCY SHARE REC	CIPIENT SHARE	TOTAL		FUNDING PERIOD N/A			
PREVIOUSLY OBLIGATED:	h) (1)	\$.00	\ (1)		THROUGH			
OBLIGATED BY THIS ACTION:	9) (4)	\$.00	<i>)</i> (4)		N/A			
TOTAL OBLIGATED ON AWARD:		\$.00			PERFORMANCE			
FUTURE FUNDING:		\$.00			29-SEP-1995 THROUGH			
GRANT TOTAL:			450,000.00		31-DEC-2000			
19. ACCOUNTING AND APPROPRIATION C	ATA:							
20a. PRINCIPAL INVESTIGATOR/RECIPIEN TECHNICAL REPRESENTATIVE:	IT	21. TECHNICAL REPRESE 21a. NAME: John C.			21b. CODE: ONR 312			
(PI) James A. Cooper		21c. ADDRESS: OFFICE OF NAVAL BALLSTON CENTRE 800 NORTH QUINC ARLINGTON VA	RESEARCH TOWER ONE Y STREET 22217-5660					
20b. TELEPHONE NUMBER: 20c. EMAIL		21d. TELEPHONE NUMBE	R:	21e. EMAIL AD				
(765) 4943514 cooperjamen.	22b, CODE:	(703) 6961437 23a, ADMINISTRATIVE OF	FICE:	1000 1000	23b. CODE:			
22a. NAME: Carol A. Porter	ONR 251		16.5		N62880			
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660 22d. TELEPHONE NUMBER: 22c. EMAIL A		OFFICE OF NAVAL 536 S CLARK STR CHICAGO IL 60 Fax: (312) 3532	REET ROOM 2 0605-1588		FFICE CHICAGO			
24. SUBMIT PAYMENT REQUEST TO:	25a. PAYING OFFICE:	25b. CODE; N68892	26a, PATENT	OFFICE:	26b. CODE:			
Same as block #23a	DFAS CHARLESTON,	- 1773 W. S.		'				

AWARD NO.	AWARD/MODIFI	CATION	P00007	2 of 5
N00014-95-1-1302 27. SPECIAL INSTRUCTIONS:			100007	13 01 0
	t a mlam and			
See "Special Requirements" At	cachment			
28. DELEGATIONS: The administration duties liste	d below have been delegated to the a	dministrative office (b	lock 23a). Upon request the awarding	office contact (block 22)
will make their full text available. Please direct ques	stions to the contacts @: http://	www.onr.navy	.mil/02/024/offices.ht	:m
Full Delegation				
			and the state of t	
29. TERMS AND CONDITIONS: The following term Upon request the awarding office contact named in	ns and conditions are incorporated her block 22 will make their full text available.	ein by reference with	the same force and effect as if they would at the specified URL.	ere given in iuii text.
DOCUMENT	URL			CLAUSES
	w.			
	Loren Media			
30. OPTIONS OPTION NO. AMOUNT		P	PERIOD	
(1)				
(2) (3)				
(3)				
(4) 31. REPORTS: The following reports must be subm	allted to the indicated addressage in t	he indicated quantitie	s within 90 days following the expirati	on or termination of
the project. Final Technical Reports must have a SI	F298, Report Documentation Page, at	ccompanying them. U	niess otherwise stated in the award/m	odification, complete
Block 12a of the SF298 as follows: "Approved for P	ublic Release; distribution is Unlimited	j".		
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AWARD NO. N00014-95-1-1302	SPECIAL REQUIREMENTS	MODIFICATION NO. P00007	PAGE 5 of 5
	provide a no cost extension for grant NO	00149511302 through 31	Dec
2000.			
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AWARD/

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4. AWARD NO.: NO0014-95-1-1302	P00006	Increment	00PR030		1 of	
8. ACTIVITY/AGENCY PROPOSAL NO.:	9. RECIPIENT PROPOSA	AL NO.: 10. PROPOSA		VITY TYPE:	12. PROGRAM TYP	E;
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OBLIGATED BY THIS ACTION:) (4)	\$.00	5) (T)		N/A	
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GRANT TOTAL: \$10	,450,000.00	\$.00 \$1	0,450,000.00			
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See attached Financial Acco	ounting Data Sheet	(s)				
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TECHNICAL REPRESENTATIVE:		21a. NAME: John C			ONR 312	
(PI) James A. Cooper		21c. ADDRESS:	T DESCRIPTION			
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(765) 4943514 cooperj@ecn.pu		(703) 6961437		zolperj@onr.nav	23b, CODE:	
22. AWARDING OFFICE CONTACT 22a. NAME: Carol A. Porter	22b. CODE: ONR 251	23a. ADMINISTRATIVE	OFFICE,	.0	N62880	
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BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET		CHICAGO IL 60605-1588 Fax: (312) 3532094, Email: fryet@onr.navy.mil				
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N00014-95-1-1302		P00006	2 01 5				
27. SPECIAL INSTRUCTIONS:	•						
See "Special Requirements" At	tachment		IA.				
28 DELECATIONS: The administration duties liste	d below have been delegated to the administrative office (block 23a). Upon request the awarding	office contact (block 22)				
will make their full text available. Please direct ques		/.mil/02/024/offices.ht					
	- hetp://www.onr.nav	y.mil/02/024/0ffices.no	-101				
Full Delegation							
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29 TERMS AND CONDITIONS: The following term	s and conditions are incorporated herein by reference wil	the same force and effect as if they w	vere given in full text.				
Upon request the awarding office contact named in	block 22 will make their full text available, or they can be	ound at the specified URL.					
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31 REPORTS: The following reports must be subm	itted to the indicated addressees, in the indicated quantili	es, within 90 days following the expirati	on or termination of				
the project. Final Technical Reports must have a SI Block 12a of the SF298 as follows: "Approved for P	7298, Report Documentation Page, accompanying them. I	Inless otherwise stated in the award/m	odification, complete				
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MODIFICATION NO. PAGE AWARD NO. 5 of 5 P00006 N00014-95-1-1302 This modification is to provide final increment of funds.



Office of Naval Research, Chicago Region 536 South Clark Street Room 208

Chicago, IL 60605-1588

Phone: (312) 886-5423

Fax: (312) 353-2094

ACO Code: N62880

AWARD MODIFICATION

Award Number: N00014-95-1-1302

Modification Number: A00002

Title: MANUFACTURABLE POWER SWITCHING DEVICES

Award Recipient: PURDUE RESEARCH FOUNDATION HOVDE HALL THIRD FLOOR

WEST LAFAYETTE IN 47907

Authority: 10 U.S.C. 2358, as amended; 31 U.S.C. 6304

This award modification eliminates the requirement for prior approvals for foreign travel.

All other conditions and terms remain unchanged.

For the Office of Naval Research:

/SIGNED/

David J. Wyner Administrative Contracting Officer

Effective Date: 10/1/98

Office of Naval Research

ONR 251: Elizabeth L. Ford (703) 696-2576

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660 GRANT NO:

MOD NUMBER:

PR NUMBER: P.O. CODE:

CAGE CODE:

DISBURSING CODE: AGO CODE:

PI:

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James A. Cooper

CFDA No: 12.300

RESEARCH GRANT

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$10,450,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached Financial Accounting Data Sheet(s).

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$10,450,000.00. The amount currently available for payment is \$8,697,000.00. The Government's obligation for the difference of \$1,753,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

All other terms and conditions of this Grant remain unchanged.



FINANCIAL ACCOUNTING DATA SHEET - NAVY

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Office of Naval Research ONR 251:Elizabeth L. Ford (703) 696-2576 Ballston Centre Tower One 800 North Quincy Street

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James A. Cooper

CFDA No: 12.300

Arlington, VA 22217-5660

RESEARCH GRANT

PI:

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$10,450,000.00

AUTHORITY: 10 USC 2358 as amended, and 31 USC 6304

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to exercise an option and provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amount set forth on the attached Financial Accounting Data Sheet(s).

The total amount of this Grant is revised to read \$10,450,000.00

The period of this grant is revised to read: 29 SEP 95 to 28 SEP 00.

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The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised or reinstated as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$10,450,000.00. The amount currently available for payment is \$6,607,000.00, which amount covers the period 29 SEP 95 through 29 NOV 98. The Government's obligation for the difference of \$3,843,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

All other terms and conditions of this grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY

LAMBERT C. MCCULLOUGE Grants Officer

Grants Officer /

DATE

1-8-98

FINANCIAL ACCOUNTING DATA SHEET - NAVY

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800 North Quincy Street Arlington, VA 22217-5660 GRANT NO:

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James A. Cooper

CFDA No: 12.300

RESEARCH GRANT

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 **EDI/EFT**

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide the final increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

Paragraph entitled "INCREMENTALLY FUNDED GRANTS" is deleted in its entirety.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Résearch

DATE 05 JAN 98

Helen Paul Grants Officer

FINANCIAL ACCOUNTING DATA SHEET - NAVY

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Office of Naval Research

ONR 245:Francisca C. Ramos (312) 886-5423

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660

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PI:

James A. Cooper

N00014-95-1-1302

CFDA No: 12.300

DOMESTIC RESEARCH GRANT

GRANTEE:

NRFCWASH EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached Financial Accounting Data Sheet(s).

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$4,535,833.00, which amount covers the period 29 SEP 95 through 31 OCT 97. The Government's obligation for the difference of \$1,734,667.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

Office of Navof Research

BY

Claims Officer

DATE

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Office of Naval Research

ONR 252: Julia M. Gallmon (703) 696-2609

Ballston Centre Tower One 800 North Quincy Street

Arlington, VA 22217-5660

CFDA No: 12.300

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James A. Cooper

DOMESTIC RESEARCH GRANT

GRANTEE:

PURDUE RESEARCH FOUNDATION

DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$3,142,000.00, which amount covers the period 29 SEP 95 through 31 OCT 96. The Government's obligation for the difference of \$3,128,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Navel Baseline

BY

(b) (6)

LAMBERT C. McCULLOUGH Grants Officer

Frants Officer

DATE

GRANT NUMBER: N00014-95-1-1302

FINANCIAL ACCOUNTING DATA SHEET - NAVY

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Sub. Date: 06 MAR 96 PR#95PR05125-00 FRC: URIJ 355 0 000542 2D 555555 RT 103 000 0RIJ 1,742,000.00	
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PREPARED/AUTHORIZED BY: COMPTROLLER APPROVAL:	A ME COLOR TO THE
CONTRACT REVIEWED FOR FISCAL DATA	AND SIGNATURE
DATE: BY_(b) (6)	for COMPTROLLER, ONR
DATE:	•
FAD1	3/20/96

OFFICE OF NAVAL RESEARCH
ONR 251:C. COLEMAN (703)696-4516
BALLSTON TOWER ONE
800 NORTH QUINCY STREET
ARLINGTON VA 22217-5660
CFDA NO.: 12.300

GRANT NO: 1,00014-95-1-1302 R&T PROJECT: 1213017---01

ONR PM/PO: 312

DISBURSING CODE: NO0179

AGO CODE: N62880 CAGE CODE: 4B877

P.I.: James A. Cooper

RESEARCH GRANT

GRANTEE:

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

APPROPRIATION:

AA 9750400.WBBB 025 RA359 0 068342 2D 61103D R1103 0009120 \$1,400,000.00 FRC: urij

R&T Project Code: 1213017---01, Dated: 26 JUL 1995

CONTRACT REVIEWED FOR FISCAL DATA AND SIGNATURE BY

TOTAL AMOUNT OF GRANT: \$6,270,000.00 for COMPTROLLER, ONR

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

- 1. GRANT PURPOSE: The purpose of this Grant is to support research in accordance with Grantee's proposal dated 08 MAR 1995, revised 10 JUL 1995, entitled "Manufacturable Power Switching Devices," which is incorporated herein by reference.
- 2. PERIOD: The Grant is for the period 29 SEP 1995 through 28 SEP 1998.
- 3. TERMS AND CONDITIONS: This Grant is subject to the Office of Naval Research General Terms and Conditions for Educational Institutions, Non-profit Organizations, and State and Local Government dated July 1995 which are incorporated herein by reference and listed by title in Exhibit A and to any special terms and conditions contained in this Grant schedule.
- 4. PRINCIPAL INVESTIGATOR: The Principal Investigator, Professor James A. Cooper, shall be continuously responsible for the research project.

- 5. PROGRAM MANAGER/OFFI : The Program Manager/Of er representing the United States Government is Alvin M. Goodman, ONR 312, OFFICE OF NAVAL RESEARCH, BALLSTON TOWER ONE, 800 NORTH QUINCY STREET, ARLINGTON, VIRGINIA 22217-5660. (703) 696-4218
- 6. ADMINISTRATIVE GRANTS OFFICER: The Administrative Grants Officer for this Grant is:

OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588

- 7. PAYMENTS: Upon acceptance of the terms and conditions of this grant, the Grantee may submit requests for reimbursement using an original Standard Form 270 (SF 270), plus two copies, to the Administrative Grants Officer (AGO). Requests for payment may not exceed the amount obligated to this grant.
- If advance payments are desired, the grantee may submit SF-270 in accordance with OMB Circular A-110. Section 11 of the SF-270 must be completed in its entirety. At the discretion of the AGO, a payment schedule may be required of the grantee.
- 8. REPORTS AND REPORT DISTRIBUTION: Reports shall be furnished as specified in Attachment Number 1 entitled, "Reports and Report Distribution," of this Grant. The Grantee shall include a complete "Report Documentation Page" (SF 298) as the last page of each copy of every scientific and technical report prepared under this Grant. The form contains instructions for preparation. The cognizant Grant Administrator will provide assistance to the Grantee in obtaining the required form. Administrative type reports, managerial (status) reports, and reprints submitted as technical reports are excluded from this requirement.
- 9. INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$1,400,000.00, which amount covers the period 29 SEP 1995 through 30 APR 1996. The Government's obligation for the difference of \$4,870,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant.
- 10. The following clause is incorporated in full text and is applicable to grants and cooperative agreements with institutions of higher learning.
- DoDGARS 23.1 MILITARY RECRUITING ON CAMPUS (Interim Rule, 60 FR 4544-45, 24 January 1995.)

As a condition for receipt of funds available to the Department of Defense (DoD) under this award, the recipient agrees that it is not an institution that has a policy of denying, and that it is not an institution that effectively prevents, the Secretary of Defense from obtaining for military recruiting purposes: (A) entry to campuses or access to students on campuses; or (B) access to directory information pertaining to students. If the recipient is determined, using procedures

established by the Secrety of Defense to implement ction 558 of Public Law 103-337 (1994), to be such an institution during the period of performance of this agreement, and therefore to be in breach of this clause, the Government will cease all payments of DoD funds under this agreement and all other DoD grants and cooperative agreements, and it may suspend or terminate such grants and agreements unilaterally for material failure to comply with the terms and conditions of award. (End of clause)

- 11. GRANTEE ACQUISITION OF GOODS OR SERVICES:
 In accordance with Section 621 of Public Law 103-123, no amount of funding provided by this Grant may be used by the Grantee to finance the acquisition of goods or services (including contruction services) unless, in any solicitation issued by the Grantee to procure such goods and/or services with a value of at least \$500,000, the Grantee: (1) announces the amount of federal funds that will be used to finance the aquisition for which offers are being solicited; and (2) also expresses the amount of federal funding as a percentage of the total cost of the planned acquisition.
- 12. OPTION TO RENEW: The Government may require the continuation of the research as detailed in the Grant Purpose section herein for the period 29 SEP 1998 through 28 SEP 2000 under Option 1. The Grants Officer may exercise the option and/or options by written notice to the Grantee. This notice shall be given no later than sixty (60) days prior to completion of the performance period of the Grant. The total negotiated amounts of Option 1 is \$4,180,000.00.

13. UNEXPENDED FUNDS AND EARNED INTEREST:

- a. At the end of the grant period, any unexpended balances of funds provided by the grant shall be remitted to the address given in the above paragraph titled "Addministrative Grants Officer," by check made payable to the "Office of Naval Research."
- b. Any interest earned by grant funds on deposit shall be remitted annually to the Department of Health and Human Services, Payment Management System, P. O. Box 6021, Rockville, MD 20852 U.S.A., by check payable to "Department of Health and Human Services."

UNITED STATES OF AMERICA
OFFICE OF NAVAL RESEARCH LAMBERT C. McCULLOUGH
by (b) (6)

Date 7/2/85

GRANT NO: N00014-95-1-1302

ATTACHMENT NUMBER 1

REPORTS AND REPORT DISTRIBUTION

REPORT TYPES

- (a) Performance (Technical) Report(s) (Include letter report(s))
 Frequency: As Requested
- (b) Final Technical Report, issued at completion of Grant.
- (c) Final Financial Status Report (SF 269)
- (d) Final Patent Report (DD882)

REPORTS DISTRIBUTION

ADDRESSEES	REPORT TYPES	NUMBER OF COPIES
PROGRAM MANAGER/OFFICER ONR: 312 ALVIN M. GOODMAN OFFICE OF NAVAL RESEARCH BALLSTON TOWER ONE 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(a) & (b)	3
ADMINISTRATIVE GRANTS OFFICER OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	(a), (b), (c) & (d)	1
DIRECTOR, NAVAL RESEARCH LABORATORY ATTN: Code 2627 WASHINGTON, DC 20375	(a) & (b)	1
DEFENSE TECHNICAL INFORMATION CENTER BUILDING 5, CAMERON STATION ALEXANDRIA, VIRGINIA 22304-6145	R (a) & (b)	2
OFFICE OF NAVAL RESERACH BALLSTON TOWER ONE ATTN ONR OOCC1 MR WILLIAM F MCCARTS 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(d)	

If the Program Manager/Officer directs, the Grantee shall make additional distribution of technical reports in accordance with a supplemental distribution list provided by the Program Manager/Officer. The supplemental distribution list shall not exceed 250 addresses.

EXHIBIT A

The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request, the Administrative Grants Officer named herein will make their full text available.

OFFICE OF NAVAL RESEARCH

GRANT GENERAL TERMS AND CONDITIONS FOR EDUCATIONAL INSTITUTIONS, NONPROFIT ORGANIZATIONS, AND STATE AND LOCAL GOVERNMENT

ARTICLE

- 1. Federal Requirements
- 2. Order of Precedence
- 3. Administration and Cost Principles
- 4. Research Responsibilities
- 5. Amendment of Grant
- 6. University Grantees
- 7. Principal Investigator
- 8. Publications
- 9. Acknowledgment of Sponsorship
- 10. Grantee-Acquired Property
- 11. Patent Rights
- 12. Rights in Technical Data and Computer Software
- 13. Human Subjects
- 14. Animal Welfare
- 15. Research Involving Recombinant DNA Molecules
- 16. Foreign Travel Approval
- 17. Activities Abroad
- 18. Nondiscrimination
- 19. Clean Air and Water
- 20. U.S. Flag Air Carriers
- 21. Security
- 22. Subawards and Contracts/Subcontracts
- 23. New Restrictions on Lobbying

GRANT APPROVAL AND CHECK

Grantee: PURDUE RESEARCH FOUNDATION

Grant Number: N00014-95-1-1302

Modification Number: P00007

Date: 26 Jul 00

PR Number: 00PR03080-01	Code: ONR 251			7/28/2000 6.5.
Approving Code	Initials	Date		Comments
Carol A. Porter, ONR 251	(b) (6)	7/26/00	10.000	
Grant Officer Lambert C. McCullough				
Division Head Lambert C. McCullough:251	(b) (6)	7-27-	s 0	
	Applies	Date Requested	Date Provided	Comments
Initial Synopsis				
Program Officer Certifications (PR)			Marine.	
Grantee Reps & Certs				
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)	х			
Clearance Memo				
	273,			PR/Req. Date 26 JUL 00
				Mailed to Grantee:
				Beginning Date of Grant Action 26 JUL 00
				Mail Attn:
				Negotiated Value: \$0.00
***				Obligated by this PR: \$0.00
			722	Program Element: *
				Remarks:
				6

GRANT APPROVAL AND CHECKLIST

Grantee: PURDUE RESEARCH FOUNDATION

Grant Number: N00014-95-1-1302

Modification Number: P00006

Date: 15 Nov 99

PR Number: 00PR03080-00

Code: ONR 251

Approving Code	Initials	Date	2	Comments
Carol A. Porter, ONR 251	(b) (6)	11/16/99		
Grant Officer Lambert C. McCullough				
Division Head Lambert C. McCullough:251	o) (6)	11-16-99		
	Applies	Date Requested	Date Provided	Comments
Initial Synopsis				
Program Officer Certifications (PR)				
Grantee Reps & Certs				
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)	х			
Clearance Memo				
				PR/Req. Date 10 NOV 99
				Mailed to Grantee:
-				Beginning Date of Grant Action 30 NOV 99
				Mail Attn:
				Negotiated Value: \$0.00
				Obligated by this PR: \$1,753,000.00
				Program Element:
				Remarks:

NAVOCNR 4200/1 (Rev. 4-92)

Grant Distribution

PR Number:

00PR03080-00

Grant Number:

N00014-95-1-1302/P00006

Specialist:

CAP ONR: 251

Distribution Date:

11-18-59

Distributed By:

(b) (6)

PCO, ONR Arlington (Original)

Grantee (Duplicate Original)

Short Contractor Code and Address:

PURD

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

ACO

ACO MILSCAP Code and Address

N62880:

OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO

FAX 312 353 2094

536 S CLARK STREET ROOM 208

CHICAGO, IL 60605-1588

Payment Office

DODAAD Code and Address

N68892:

DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER

CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP

PO BOX 118054

CHARLESTON, SC 29423-8054

ONR:

00CC

Program Officer: John C. Zolper, ONR 312

Grant Distribution

PR Nu Grant I Specia	Number:	99PR03240-00 N00014-95-1-1302/P00005 ELF ONR: 251	3	
Distribu	ution Date: /2	7-98	Distributed By:) (6)
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	N62880: OFFICE OF NA	Code and Address VAL RESEARCH REGIONAL STREET ROOM 208 60605-1588	OFFICE CHICAGO	
	CHARLESTON PO BOX 11805	and Address ANCE AND ACCOUNTING SI OPERATING LOCATION DF		OIVISION CODE FP

ONR: 00CC Program Officer: John C. Zolper, ONR 312

GRANT APPROVAL AND CHECKLIST

Grantee: PURDUE RESEARCH FOUNDATION

Grant Number: N00014-95-1-1302

Modification Number: P00005

Date: 01 Dec 98

PR Number: 99PR03240-00

Code: ONR 251

Approving Code	Initials	Date		Comments
Elizabeth L. Ford, ONR 251	(b) (6)	12//		
Grant Officer Elizabeth L. Ford				
Division Head Lambert C. McCullough:251				
		200,000		
	Applies	Date Requested	Date Provided	Comments
Initiai Synopsis				
Program Officer Certifications (PR)				
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				PR/Req. Date 01 DEC 98
				Mailed to Grantee:
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				Negotiated Value: \$0.00
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NAVOCNR 4200/1 (Rev. 4-92)

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							47907	
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GRANT APPROVAL AND CHECKLIST

Grantee: PURDUE RESEARCH FOL. JATION

Grant Number: N00014-95-1-1302

Modification Number: P00004

Date: 07 Jan 98

PR Number: 98PR02984-01

Code: ONR 251

Approving Code	Initials	Date		Comments
Elizabeth L. Ford, ONR 251	(b) (6)	1/7		
Grant Officer		// /		
Division Head Lambert C. McCullough:251) (6)	1-8-50		
				Γ
	Applies	Date Requested	Date Provided	Comments
initial Synopsis	х			
Program Officer Certifications (PR)	Х			
Grantee Reps & Certs				
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)	х			
Clearance Memo	Х			
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				PR/Req. Date 15 DEC 97
				Mailed to Grantee:
1.5 A Mariana				Beginning Date of Grant Action 15 JAN 98
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				Negotiated Value: \$0.00
				Obligated by this PR: \$337,000.00
				Program Element:
				Remarks:

Grant Distribution

PR Number: Grant Number: Specialist:		98PR02984-01 N00014-95-1-1302/P00004 ELF ONR: 251	
Distribu	ition Date:	01-09-98	Distributed By: (b) (6)
-	PCO, ONR Arlin	ngton (Original)	·····
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ACO ACO MILSCAP Code a N62880:		VAL RESEARCH REGIONAL STREET ROOM 208	OFFICE CHICAGO
	CHARLESTON PO BOX 11805	and Address ANCE AND ACCOUNTING S OPERATING LOCATION DF	ERVICE CENTER AS CH VENDOR PAY DIVISION CODE FP
	ONR: 00CC11 Program Officer	: John C. Zolper, ONR 312	

Grant Distribution

Grant I Specia	Number: N00014-95-1-1302/P00003
Distrib	ution Date: Distributed By: (b) (6)
_	PCO, ONR Arlington (Original)
	Grantee (Duplicate Original) Short Contractor Code and Address: PURD PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907
_	ACO ACO MILSCAP Code and Address N62880: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO, IL 60605-1588
	Payment Office DODAAD Code and Address N68892: DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP PO BOX 118054 CHARLESTON, SC 29423-8054
-	ONR: 00CC11 Program Officer: John C. Zolper, ONR 312

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B11.	TYPE OF RECIPIENT				B12, OTHER F	RECIPIENT INFORM	47907 NATION			
	1. State Government 7. Indian Tribe 2. County Government 8. Nonprofit Agency (Other then Education) 3. Municipal Government 9. Private Higher Education Institution 4. Special District Government 10. Individual 5. Independent School District 11. Profit Organization (Not a Small Business) 6. State Controlled Institutions of Higher 12. Small Business 13. All Other 13. All Other 13. All Other 14. Profit Organization (Not a Small Business) 15. Federally Funded Research and Development Center (Nonprofit) 7. Not Applicable									
PART	C1. AWARD NUMBER	C2.	MOD NUMBER	DATE (YY	MMDD) DATE (Y	OJECT STARTING (MMDD)	DATE (YYMMI	(DC)		
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C10.	TYPE OF AWARD				40	di lana adalakan di kani	C11. CFDA N	UMBER		
04	2. Block Grant 5. Co 3. Formula Grant 6. Dit (S.	oject Grant operative Agreement rect Payment pecified Use)	7. Direct Loan 8. Guaranteed I 9. Insurance	nsured Loan		(Unrestricted Use) able, Contingent act	12.30	0		
	oject Description									
M	lanufacturable Power Switc	hing Devices								
C13. PRIMA	ARY ADMINISTERING AGENCY	C14. PRINCIPAL PLACE	OF PERFORMANC		YPE OF FUNDS 1. Basic Research	4. De	monstration/Validation	,		
1700)	PLACE CODE 82862	COUNTRY		Exploratory Development Advance Develop	ment 6, Ma 7. Op	gireering/Manufacturir velopment anagement and Suppo prations Systems velopment	- I		
GIO LOCHOV	(ARRECORDIATION			C17. EXTENT	COMPETED		ner			
C16. AGENCY	APPROPRIATION 1 ARMY 4 OSD 2 DMA 5 ARPA	7 NSA 10 DIA 8. DNA 11 USMC	13 DLA 14 USUHS		empeted Action	4. Not Com	peted			
4	3 BMDO 6 AF	9 DISA 12 NAVY	15 NONDOD 16 OCE 17 OTHER DOD	1						
C18. CATEGO	RY OF SUPPORT (Choose one cale RCH AND DEVELOPMENT	gory).		AMO 00013		19. CATEGORY 0	F SCIENCE AND EN	GINEERING		
	WSHIPS, TRAINEESHIPS				000000					
C18C. R&D PL		AND ENGINEERING (S. C.	loofg (montation)			19B. 13				
	TES AND EQUIPMENT FOR SCIENCE AL SUPPORT FOR SCIENCE AND EN		ns(rumentation)		000000	19C.				
	ACTIVITIES RELATED TO SCIENCE		ence Symposia)		000000		s			
	HER ACTIVITIES NOT RELATED TO	SCIENCE AND ENGINEERIN	G	00000		TELEPHONE N	Ivoro I a	ve eleties		
PART D	D1 NAME OF CONTRACTING REPRESENTATIVE (Lost, First, Mic Ivery, Dildree		(6)		lon	3. TELEPHONE N (Include Area Ci (312) 886-54	ode) (Y	TE SIGNED YMMDD) 71219		
DD Form 2566	6, OCT 94				•					

GRANT APPROVAL AND CHECKLIST

Orantee: PURDUE RESEARCH FOU...DATION

Grant Number: N00014-95-1-1302

Modification Number: P00003

Date: 19 Dec 97

PR Number: 98PR02984-00

Code: ONR 245

Approving Code	Initials	Date		Comments
Dildree Ivery, ONR 245				;
Grant Officer Arlisa A. Tracey	(b) (6)	12-99-97		
Division Head		1/5/98		
1				
				,
,				
	Applies	Date Requested	Date Provided	Comments
Initial Synopsis				
Program Officer Certifications (PR)				
Grantee Reps & Certs				
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)	Х			
Clearance Memo				
DD Form 2566 (Individual Grant Action Report)	х			
				PR/Req. Date 20 NOV 97
		3		Malled to Grantee:
		1		Beginning Date of Grant Action 30 NOV 97
				Mail Attn:
				Negotiated Value: \$0.00
				Obligated by this PR: \$1,734,667.00
				Program Element:
				Remarks:

INDIV	IDUAL JRA	NT ACTI	ON REPO	ORT	1	INTERAGENCY REPORT
il div	IDONE OIL		011 1121 1			CONTROL NUMBER
	2.22	TAR PEROPE			L LO CONTRO	0252-DOC-QU ACTING OFFICE CODE
PART A1. TYPE OF REPORT		A2. REPORT	NO.		A3. CONTRA	,
A 0 0 Original 1 Ca	ncelling 2 Correcting	4033				
PART 81. CONTRACTOR ESTABLISHMENT CODE	B2. CAGE CODE	B3. FICE COD	É	B4. TIN		BS. PARENTTIN
B 070710447	4B877	001825		3510	052049	
B6, RECIPIENT NAME AND DIVISION NAME	AĖ.	B7. REC	CIPIENT ADDRESS (Street, City, Sta	ite)	B8.RECIPIENT B9. CITY OR PLACE RECIPIENT
PURDUE RESEARCH FOUN DIVISION OF SPONSORED		0.0000000000000000000000000000000000000	E HALL THIRD LAFAYETTE, II			CODE STATE OR COUNTRY CODE 18 B10. ZIP CODE 47907
B11. TYPE OF RECIPIENT				B12.	OTHER RECIPIENT INFORM	
State Government County Government Municipal Government Special District Government Independent School District State Controlled Institutions of	9. Private 10. Individu 11. Profit O	it Agency (Other tha Higher Education Ins al rganization (Not a Sn usiness	ditution	07	(Academia)	- 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0
PART C1. AWARD NUMBER	C2.	MOD NUMBER	C3, OBLIG		C4. PROJECT STARTING	
C N00014-95-1-1302		P00002	PATE (YY)	מולות ו	DATE (YYMMDD) 961230	971031
C6. TYPE OF ACTION	C7A.			State of the state	DERAL OBLIGATION SIGN	C9. TOTAL FEDERAL
		(Enter whole dolls	ars omy)	1.	Obligation Deobligation	VALUE OF AWARD (Enter whole dollers only)
New Award		0001393333		1		
2. Subsequent increments 3. Exercise of Option, Add Revision of Research P 4. Funding Adjustments to	itional Research roposal	NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars) CSB. NONFEDERAL OBLIGATION SIGN 1 Obligation 2 Deobligation			0006270000 SN	
C10. TYPE OF AWARD	0.00000				200 - 200 -	C11. CFDA NUMBER
04 2. Block Grant 5. Co 3. Formula Grant 6. D	oject Grant coperative Agreement rect Payment	 Direct Loan Guaranteed Insurance 	Insured Loan	Other	Payment (Unrestricted Use) Reimbursable, Contingent jible, Indirect	12.300
C12. Project Description	pecified Use)					
Manufacturable Power Swit				•		
C13. PRIMARY ADMINISTERING AGENCY	C14. PRINCIPAL PLACE	E OF PERFORMANO C14B, STATE OR		TYPE OF FUNE 1. Basic R		monstration/Validation
1700	PLACE CODE 82862	COUNTRY	*/	V.	oment De e Development 6. Ma 7. Op De	gli-eering/Manufacturing rvelopment anagement and Support arations Systems velopment her
C16. AGENCY APPROPRIATION 1 ARMY 4 OSD	7 NSA 10 DIA	13 DLA		COMPETED		
2 DMA 5 ARPA 3 BMDO 6 AF	8. DNA 11 USMC 9 DISA 12 NAVY	14 USUHS 15 NONDoD 16 OCE 17 OTHER DOD	1	ompeted Action		
C18. CATEGORY OF SUPPORT (Choose one cate	gory).			393333	C19, CATEGORY C	OF SCIENCE AND ENGINEERING
C18B. FELLOWSHIPS, TRAINEESHIPS	NOON THE PARTY			000000	VI8/1. 40	
C18C. R&D PLANT			00000	000000	C19B. 13	
C18D. FACILITIES AND EQUIPMENT FOR SCIENCE C18E. GENERAL SUPPORT FOR SCIENCE AND EI		Instrumentation)		000000	0400	
C18F. OTHER ACTIVITIES RELATED TO SCIENCE		ence Symposia)		000000	C19C.	
C18G. ALL OTHER ACTIVITIES NOT RELATED TO				000000		
PART D1 NAME OF CONTRACTING REPRESENTATIVE (Last, First, Min Ramos, Francisca, DD Form 2566, OCT 94	ddle initial)	(6)	A		D3. TELEPHONE N (Include Area Co (312) 886-54	ode) (YYMMDD)

GRANT APPROVAL AND CHECKLIST

Grantee: PURDUE RESEARCH FOUNDATION

Grant Number: N00014-95-1-1302

Modification Number: P00002

Date: 05 Dec 96

PR Number: 97PR03362-00

Code: ONR 245

Approving Code	Initials	Date		Comments
Francisca C. Ramos, ONR 245				
Grant Officer Elizabeth L. Ford	(b) (6)	12/6		
Division Head :				
	Applies	Date Requested	Date Provided	Comments
Initial Synopsis				
Program Officer Certifications (PR)				
Grantee Reps & Certs				
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)	х			
Clearance Memo				
DD Form 2566 (Individual Grant Action Report)	Х			
	7.4.			
				PR/Req. Date 03 DEC 96
				Mailed to Grantee:
				Beginning Date of Grant Action 30 DEC 96
			· · · · · · · · · · · · · · · · · · ·	Mail Attn:
			-	Negotiated Value: \$0.00
,				Obligated by this PR: \$1,393,333.00
				Program Element:
				Remarks:

Grant Distribution

PR Nur Grant N Specia	Number:	97PR03362-00 N00014-95-1-1302/P00002 FCR ONR: 245	
Distribu	ution Date: [2]	19/94	Distributed (b) (6)
·	PCO, ONR Arli	ngton (Original)	
_	PURD PURDUE RESI DIVISION OF S HOVDE HALL	cate Original) or Code and Address: EARCH FOUNDATION SPONSORED PROGRAMS THIRD FLOOR ETTE, IN 47907	
_	N62880: OFFICE OF NA	Code and Address VAL RESEARCH REGIONAL STREET ROOM 208 50605-1588	- OFFICE CHICAGO
_	CHARLESTON PO BOX 11805	and Address ANCE AND ACCOUNTING SI OPERATING LOCATION DF	ERVICE CENTER FAS CH VENDOR PAY DIVISION CODE FP
_	ONR: 00CC11 Program Office	r: Alvin M. Goodman, ONR 3	12

13, 0° 0/0

AWARD NUMBER: N00014-95-1-1302

MODIFICATION NUMBER: A00001

DISTRIBUTION LIST

PCO - OFFICE OF NAVAL RESEARCH, ARLINGTON CODE 21 (ORIGINAL) GRANTEE - (DUPLICATE ORIGINAL) ACO - ONR CHICAGO REGIONAL OFFICE (ORIGINAL) PAYMENT OFFICE - DFAS, CHARLESTON, SC ONR CODES - 312, 00CC

RANT MODIFICATION

Granting Agency:

DEPARTMENT OF THE NAVY OFFICE OF NAVAL RESEARCH CHICAGO REGION OFFICE FEDERAL BUILDING, ROOM 208 536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605-1588

ATTN: FRANCISCA C. RAMOS

(312) 886-5423

Grant Information:

GRANT NUMBER: N00014-95-1-1302

MODIFICATION: SCHOOL CODE:

A00001 PURD

ACO CODE:

N62880

S.O. CODE:

312

DISBURSING:

N68892

R&T PROJECT:

N/A

CAGE CODE:

4B877

Grant Recipient:

PURDUE RESEARCH FOUNDATION

DIVISION OF SPONDORED PROGRAMS

HOVDE HALL, THIRD FLOOR

WEST LAFAYETTE IN 47907

Authority:

Dod 3210.6-R, Section 31.3

Modification Content:

This grant is hereby modified to reflect the following changes:

- 1. This Grant is hereby modified to include it in the OCNR/DFAS EDI/EFT bill paying system. All payments will be made via funds per the Payment Information Form ACH Vendor Payment System (TSF 3881) recorded under DFAS Vendor Number 4301AO.
- 2. The Grantee section of the grant is revised as follows:

DFAS EDI/EFT Vendor Number 4301AO

PURDUE RESEARCH FOUNDATION

DIVISION OF SPONSORED PROGRAMS

HOVDE HALL, THIRD FLOOR

WEST LAFAYETTE, IN 47907

- 3. The payment section of the grant is revised as follows:
- 7. Payments: Upon acceptance of the terms and conditions of this grant, the grantee shall submit requests for payment to the Administrative Grants Officer using OCNR/DFAS EDI/EFT bill paying network. All payments shall be via funds transfers per the Payment Information Form ACH Vendor Payment System (TSF 3881) recorded under DFAS EDI/EFT Vendor Number 4301AO (which is incorporated as Attachment 1 to this modification).

UNITED STATES OF AMERICA BY THE BY: Administrative Grants Officer DATE: DATE:

	INDIVI	DÙAL GRAI	NT ACTI	ON REPO	ORT [®]		INTERA REPI CONTROL 0252-DI	ORT NUMBER
PART	A1. TYPE OF REPORT		A2. REPORT	NO.		A3. CONTRA	ACTING OFFICE COD	
	0 Original 1 Can	celling 2 Correcting	2488			FC424		1
Α						E612A		
PART	B1. CONTRACTOR ESTABLISHMENT CODE	B2. CAGE CODE	B3. FICE COD)E	B4. TIN		B5, PARENT TIN	
В	07172054E	4B877	001825		35105204	19		
B6. F	RECIPIENT NAME AND DIVISION NAME		B7. REG	CIPIENT ADDRESS (Street, City, State)		B8.RECIPIENT CITY OR PLACE	89. RECIPIENT
	PURDUE RESEARCH FOUND DIVISION OF SPONSORED P			E HALL THIRD LAFAYETTE, II			82862 B10. ZIP CODE	STATE OR COUNTRY CODE 18
B11.	TYPE OF RECIPIENT		l .		B12, OTHE	R RECIPIENT INFORM	47907	
06	State Government County Government Municipal Government Special District Government Independent School District State Controlled Institutions of Feducation	9. Private H 10. Individua 11. Profit Org	t Agency (Other the ligher Education Ins Il genization (Not a Sr Isiness	titution	1. 2. 3. 4. 5.	Historically Black Colle Minority Institutions Foreign Universities Foreign Nonprofit Orga Federally Fundad Rese (Academia) Federally Fundad Rese (Nonprofit) Not Applicable	anizations earch and Developme	
PART	C1. AWARD NUMBER	C2.	MOD NUMBER	C3. OBLIC DATE (YY)	GATION C4. MMOD) DATE	PROJECT STARTING (YYMMDD)	C5. PROJECT DATE (YYMMI	DD)
С	N00014-95-1-1302		P00001	13-1	3 /4	960501	961031	
C8.	TYPE OF ACTION	C7A.	FEDERAL OBLIG (Enter whole dollar	SATION AMOUNT ars only)	. 1. Obli	OBLIGATION SIGN gation bilgation	C9. TOTAL F VALUE OF AV (Enter whole d	VARD
	 New Award 		0001742000		1			
2	Subsequent Incremental Exercise of Option, Additi Revision of Research Pro Funding Adjustments to 0	onal Research posal	NONFEDERAL O AMOUNT (Enter		1 Obli	RAL OBLIGATION SIG gation bligation	000627	0000
C10.	TYPE OF AWARD			I			C11. CFDAN	UMBER
04	Block Grant 5. Coo Formula Grant 6. Dire	perative Agreement	 Direct Loan Guaranteed Insurance 	Insured Loan		ent (Unrestricted Use) ursable, Contingent direct	12.30	
	roject Description						•	
C13. PRIM	MARY ADMINISTERING AGENCY	C14. PRINCIPAL PLACE C14A. CITY OR	***************************************		YPE OF FUNDS			
170		PLAGE CODE 82862	C14B, STATE OR COUNTRY	CODE 1	Basic Research Exploratory Development Advance Devel	5. Eng Dov lopment 6. Mai 7. Ope	monstration/Validation gleecing/Manufacturin velopment nagement and Suppo erations Systems velopment	g
C16. AGENCY	Y APPROPRIATION 1 ARMY 4 OSD	7 NSA 10 DIA	13 DLA	C17. EXTENT	COMPETED			
4	2 DMA 5 ARPA 3 BMDO 6 AF	8. DNA 11 USMC 9 DISA 12 NAVY	14 USUHS 15 NONDOD 16 OCE	1. Co	mpeted Action	 Not Comp 	peted	
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	ORY OF SUPPORT (Choose one catego RCH AND DEVELOPMENT	ay).		AMO! 00017	42000	C19. CATEGORY OF C19A, 45	F SCIENCE AND EN	INEERING
	WSHIPS, TRAINEESHIPS				00000	V 10/1, 70		
C18C. R&D PL	ANT				00000	C19B, 13		
C18D, FACILIT	TIES AND EQUIPMENT FOR SCIENCE	AND ENGINEERING (DoD In	nstrumentation)		00000			
C18E, GENER	AL SUPPORT FOR SCIENCE AND ENG	SINEERING			00000	C19C.		
	ACTIVITIES RELATED TO SCIENCE A				00000			
C18G. ALL OT	HER ACTIVITIES NOT RELATED TO S			00000	00000			
PART	D1 NAME OF CONTRACTING C REPRESENTATIVE (Last, Firtst, Mids		ATURE			D3. TELEPHONE NU (Include Area Co		TE SIGNED YMMDD)
D	Gallmon, Julia, M)) (b)			(703) 696-26	0.0000	0313
DD Form 256	6, OCT 94		<i>()</i>					

GRANT APPROVAL AND CHECKLIST

Grantee: PURDUE RESEARCH FOUNDATION

Grant Number: N00014-95-1-1302

Modification Number: P00001

Date: 13 Mar 96

PR Number: 96PR05125-00

Code: ONR 252

Approving Code	Initials	Date		Comments
Julia M. Gallmon, ONR 252 (b) (6)				
Grant Officer				
Division Head Lambert C. McCullough:251	o) (6)	3/13/14	2	
			Y 10	
	Applies	Date Requested	Date Provided	Comments
Initial Synopsis				
Program Officer Certifications (PR)				
Grantee Reps & Certs	40.7			
Grantee BAA Submittal Statement				
EFT (Stamp & Attachment)				
Clearance Memo				
DD Form 2566 (Individual Grant Action Report)	х			
			. C. Millipage	
- U-80 APP -		-		
			<u>.</u>	
-11-71			AL MEAN COLUMN	
				PR/Req. Date 06 MAR 96
				Mailed to Grantee:
				Beginning Date of Grant Action 01 MAY 96
				Mail Attn:
	-			Negotiated Value: \$0.00
				Obligated by this PR: \$1,742,000.00
				Program Element:
				Remarks:

Grant Distribution

96PR05125-00

PR Number:

Grant I Specia	Number: N00014-95-1-1302/P0 list: JMG ONR: 252	0001
Distrib	ution Date: 02 APR 1000	Distributed By: (b) (6)
-	PCO, ONR Arlington (Original)	
	Grantee (Duplicate Original) Short Contractor Code and Address: PURD PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRA HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907	M S
	ACO ACO MILSCAP Code & Address N628 OFFICE OF NAVAL RESEARCH REG 536 S CLARK STREET ROOM 208 CHICAGO, IL 60605-1588	
_	Payment Office DODAAD Code and Address N00179: DFAS CHARLESTON OPLOC VENDOR PAY AND TRAVEL DIV COL PO BOX 118054 CHARLESTON, SC 29423-8054)E FP
	ONR: 00CC11 Program Officer: Alvin M. Goodman, C	NR 312

	INDIVIDUAL GRANT ACTION REPORT									INTERAGENCY REPORT CONTROL NUMBER 0252-DOC-QU		
	51 T	YPE OF REPORT			AZ. REPORT NO.				AS. CONTRACTING	OFFICE CODE		
PART A	0	1	ng 2 Correcting		3743				E614B			
	B1. E	UNS NUMBER	B2. CAGE CODE		B3. INSTITUTION C	DOE	84. T	TPI		BS. PARENT	TIN	
PART B	07	172054E	4B877		001825		35	105204	⊦9			
BG. GRANT	EE NAN	NE AND DIVISION NAME			B7. GRANTEE ADDR	ESS (Street, City,	State)			D8. GRANTER CITY OR PLACE CO		B9. GRANTEE STATE OR
וורדסוזס	ם זו	ESEARCH FOUN	IDATTON		HOVDE HAI	л. тит	RD '	FLOOR		PLACE CO	DE	COUNTRY CODE
		OF SPONSORI			7010 IS			,		82862		18
										BIO. ZIP CO		
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6 6	State G County Munici Specia Indepe State C	NTEE overnment Government pal Government I District Government andent School District onfrolied institutions er Education	9 Private Hig 10 Individual	igene her E intzat	y (Other than Educatio ducation institution Ion (Mot a Small Bush	ness)	7	1 Historica 2 Minority 3 Foreign I 4 Foreign I 5 Federally 6 Federally 7 Not Appi	University Nonprofit Organizati y Funded Research a y Funded Research a loable	on nd Developme nd Developme	nt Cente nt Cente	r (Nonprofit)
PART C		RANT NUMBER 00149511302	C	2. M	OD NUMBER	C3. OBLIGATI DATE (YY.		DATE	ect starting (yymmdd)) 9 2 9		TENDIN YMMOD +30	
CB. TYPE C	F ACTI	DN .	e.		EDERAL OBLIGATION		C7B.	FEDERAL OBLI	GATION SIGN			VALUE OF thole dellars
		ant Award		00	Enter whole dollars of 0140000	ny)	1	1 Obligati 2 Deobliga		onty)	(Linear to	
	Exercla	prent incremental Funding A se of Option, Additional Resea			NONFEDERAL OBLIGAT		CSB.	NONFEDERAL	OBLIGATION SIGN			
4 4		on of Research Proposal ng Adjustment to Complete P	roject		AMOUNT (Enter whole	dollars only)		1 Obligati 2 Deobliga		00062	700	100
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C12. PROJE	CT DES	CRIPTION										
Manu	fac	turable Powe	er Switch	in	g Device	s						
C13. PRIM	ARY AD	1	14. PRINCIPAL PLAC		PERFORMANCE STATE OR		carcii		4 Engineering			7 Other
1700			PLACE CODE		COUNTRY CODE			Development evelopment	5 Operational 6 Managemen			
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		SUPPORT (Choose one calego	ry)			000140	OOO	0	C19A.	SCIENCE HIND	MOUNT	ALIAO.
		ND DEVELOPMENT PS, TRAINEESHIPS				000000			13			
CIBC. R & C						000000			C19B.			
		AND EQUIPMENT FOR SCIENCE	AND ENGINEERING (DoD I	nstrument)	000000			19			
		PPORT FOR SCIENCE AND ENG				000000			C19C.			
		ITIES RELATED TO SCIENCE A				000000					Ka je se	
CING. ALL		ACTIVITIES NOT RELATED TO S		RING		000000	000	V	D3. TELEPHONE N	IIIMBER T	D4. D	ATE SIGNED
PART D		NAME OF CONTRACTING OFFIC REPRESENTATIVE (Last, First,	Middle Initial)		D2. SIGNATURE	6)			(Include Area	Code)	()803
	Go	leman Curti:	ssa L			\cup			703-696-	43T0	731	7003

Contractor: PURDUE RESEARCH FOUNDATION

Contract Number: N00014-95-1-1302 R&T Project Code: 1213017---01 Date: 5 SEP 1995 Code: 251:CLC

Requesting Activity So AMG 01 AUG 1995 252B CAAS_Fiscal Approval227 100T/01IS 630/141PM 100L/00CC Contracting Officer 252B App. Encl Pend Contractor Representation & Certifications Scientific Officer Certifications Y X Award Synopsis Y X Method of Contracting O&F Contracting D&F Contractor Support Services (CAAS) Nonpersonal Services Determination Data Form For Grants Clearance Memo V X In Code 15 PR/Req. Date 26 JUL 1995 Grant Clearance Memo V X In Code 15 O1 AUG 1995	Approving Code	Initials	Da	te		Comments			
252B CAAS Fiscal Approval 27/ 100T/01IS 630/1411PM 100Y/00SB 100L/00CC Contracting Officer 252B App. Encl Pend Contractor Representation & Certifications & V X Award Synopsis & Y X Award Synopsis & V X And Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Support Contractor Representation App. Encl Pend App. Encl Pend App. Encl Pend App. Encl Pend Contractor Representation App. Encl Pend Contractor Representation F. Zer 95 Certification Pin Manual Pend Pin Manual Pend Pin Pend Pin Pend Pend Pin Pend Pend Pend Pend Pend Pend Pend Pen	Requesting		01 371	a 1005					
Approval 277 100T/01IS 630/1411PM 100Y/00SB 100L/00CC Contracting Officer 252B App. Encl Pend Contractor Representation & Certifications Scientific Officer Certifications Y X Award Synopsis Y X Method of Contractor Support Services (CAAS) Nonpersonal Services Determination Data Form For Grants Clearance Memo Y X In Code 15 PR/Req. Date D AUG 1995 Mailed to Mailed to	Activity SO	AMG		,	-				
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Contractor Representation & Certifications			Ann	Encl F	end		App.	Encl	Pend
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Contractor Support Services (CAAS) Nonpersonal Services Determination Data Form For Grants Grant Clearance Memo Y X in Code 15 O1 AUG 1995		እር.ਓ				CHINFO	I I	1	
Nonpersonal Services Determination Data Form For Grants Grant Clearance Memo Y X In Code 15 O1 AUG 1995	Contractor Su	pport						1	
Data Form For Grants PR/Req. Date 26 JUL 1995 Grant PR/Req. Received Clearance Memo Y X in Code 15 O1 AUG 1995 Mailed to Mailed to O1 AUG 1995 O1 AUG 1995	Nonpersonal S	Services				Other	1		
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DD 254 I I CONTRACTOR I	DD 254	IIO		A	 			14 hr	

| Final Execution

| Program Element: ?

| Remarks:

| | Beginning Date of |

| | Contract Action | 29 SEP 1995

Mail Attn: CHANDREA LIGHTFOOT

Negotiated Value: \$6,270,000.00

Obligated by this PR: \$1,400,000.00

Contract Approval and Checklist NAVOCNR 4200/1 (7-86) Formerly NAVONR 4200/1 (Rev,11-85)

EEO

J&A

Human Volunteers

Business Clearance

ADP Approval

Acquisition Plan_

Subcontracting Plan

CONTRACT DISTRIBUTION DOCUMENT

R&T Project Code: 121301701 Contract Number: N00014-95-1-1302 Negotiator: Curtissa L. Coleman Code: 25	() Contractor Execution Requir Date Mailed: Initials:
Distribution Date:	Distributed By: (b) (6)
Contactor (Duplicate Original) Short Contractor Code & Address: purd PURDUE RESEARCH FOUNDATION	*
DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE IN 47907	
ACO ACO MILSCAP Code & Address: OFFICE OF NAVAL RESEARCH N62880 REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	
Payment Office DODAAD Code & Address: N00179 DEFENSE FINANCE ACCOUNTING SERVICE CHARLESTON OPERATING LOCATION PO BOX 71489 ATTN CODE FPVG NORTH CHARLESTON SC 29415-1489	
Cognizant Audit Agency (?) If checke Code & Address: memoran HS05 DEPARTMENT OF HEALTH HUMAN SERVICES REGIONAL INSPECTOR GENERAL FOR AUDI 300 SOUTH WACKER DRIVE ROOM 3536 CHICAGO IL 60606	dum to the audit agency.
ONR Codes: 00CCP11 11D4 Scientific Officer:	<u>.</u> .
Other: Outside Source of Funds Code & Addres	s:

EX.

Porter, Carol A.

From:

Sent:

To:

Subject:

Zolper, John Tuesday, July 25, 2000 3:22 PM Porter, Carol A. RE: N000149511302 PURDUE UNIVERSITY

I approve of the extension to 31 December 2000.

John

----Original Message---From: Porter, Carol A.
Sent: Tuesday, July 25, 2000 11:36 AM
To: Zolper, John
Cc: Porter, Carol A.
Subject: N000149511302 PURDUE UNIVERSITY

Mr. Zolper,

The University is requesting a no funds extension from 28 Sep 2000 to 31 Dec 2000. Please give an authorization if this is deemed reasonable.

Carol Porter

PURDUE UNIVERSITY



SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING

July 13, 2000

Ms. Carol Porter Office of Naval Research Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660

Dear Ms. Porter:

Ref: N00014-95-1-1302 (530-1285-1348)

Work is continuing on several avenues of investigation under this MURI program. These projects include studies of the interface state density near the conduction band on 4H-SiC as a function of oxide deposition conditions, post-oxidation anneals in NO and NH3, and post-oxidation heat treatments required for gate deposition. Other work in progress includes development of high-voltage DMOSFETs and UMOSFETs with blocking voltages in the 2-6 kV range. These latter devices are being constructed with modified fabrication procedures to avoid p-type implants and the attendant high-temperature implant activation anneals that disrupt the surface and reduce inversion layer mobility in subsequently-formed MOSFETs.

We would like to request a 3 month no-cost extension on this project to continue this work through the end of December 2000.

We look forward to receiving your favorable reply. Thank you.

APPROVAL REQUESTED:

(b) (6)
James A. Cooper, Jr. y
Professor of Electrical

and Computer Engineering

APPROVED:

W. Kent Fuchs, Head

School of Electrical and Computer Engrg.

Approval Recommended:

(b) (6)

Thomas B. Wright // Assistant Director Sponsored Program Administration

/vj

Cc: Office of Naval Research Regional Office, Chicago, IL EE Business Office, 530-1285-1348 Edie Doland, Sponsored Program Services

1285 Electrical Engineering Building • West Lafayette, IN 47907-1285 USA 765-494-3514 (FAX -6441) • cooperi@ecn.purdue.edu • http://www.ecn.purdue.edu/WBG/

96 PR 05/25-00

Purdue University



School of Electrical and Computer Engineering

February 27, 1996

Dr. Al Goodman Office of Naval Research, ONR-312 800 North Quincy Street Arlington, VA 22217-5660 (703) 696-4845 FAX 696-2611

Dear Dr. Goodman:

The final budget for grant no. N00014-95-1-1302 "Manufacturable Power Switching Devices" contains \$54,442 for the purchase of scientific equipment in the first year of the program (FY95) and \$64,557 for the purchase of scientific equipment in the second year of the program (FY96). The anticipated purchases are listed below.

FY'95 Funds

Item	Supplier	Quan	Estimated Unit Cost	Extended Cost
Thermal Oxidation Furnace (Reconditioned)	Exmatec	2	\$14,125	\$28,250
Vacuum-Capable Rapid Thermal Annealer (for ohmic contact anneal)	Not yet determined	1	\$26,192	\$26,192

FY'96 Funds

Item	Supplier	Quan	Estimated Unit Cost	Extended Cost
LCR Meter (HP-4284A)	Hewlett-Packard	1	\$13,166	\$13,166
III-N Gas Handling Equipment for MOCVD System	Not yet determined	1	\$37,000	\$37,000
Inductively Heated Annealing	Not yet determined	1	\$14,391	\$14,391

Furnace (for implant activation)

Sincerely,

(b) (6)

Professor of Electrical and Computer Engineering

1285 Electrical Engineering Building • West Lafayette, IN 47907-1285 PHONE (317) 494-3514 • FAX (317) 494-6441 • E-MAIL: cooperj@ecn.purdue.edu

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P	rocure	ment					
PRN	umber:	96PR05125-00	Award Number: N000149511302		Mod Number:		
PI:		Cooper					
Title			Power Switching Devices				
Perfo	ormer L	ong Name: PUR	DUE RESEARCH FOUNDATION				
	Estima	ted Equipment Inf	ormation	Purcha		Government	
Quar	ntity I	Jnit Amount	Description	FY	Total Amount	Retains Title?	
	2	14,125.00	Thermal Oxidation Furnace	1996	(b) (4)		
	1	26,192.00	Vacuum-capable Rapid Thermal Annealer	1996	Remotivated to		
	1		LCR Meter (HP 4284A)	1996			
	1	37,000.00	III-N Gas-handling Equipment for MOCVD System	-	and the same of th		
	1	14,391.00	Inductively Heated Annealing Furnace	1996			
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DEPARTMENT OF THE NAVY

OFFICE OF NAVAL RESEARCH 800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660 2 2 SEP 1995

IN REPLY REFER TO

251:CLC

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

Gentlemen:

Enclosed for your retention is one copy of Grant Number N00014-95-1-1302 which I have signed for the Government. The grant document does not require your signature.

Please acknowledge receipt of this grant by promptly signing and returning the enclosed copy of this transmittal letter to this office to the attention of Code 251:CLC. Keep this original letter for your records.

In the event of any disagreement with the grant provisions, you must notify this office within thirty (30) days of the date of this letter. If you have any questions, please contact Curtissa L. Coleman by telephone on (703) 696-4516.

In addition, please note that the Grant General Terms and Conditions for Educational Institutions, Nonprofit Organizations, and State and Local Governments have been revised. A copy of the terms and con-ditions has been attached to this letter in full text.

Sincerely,



Enclosure

Acknowledgement of Receipt

By(b)(6)

Date: OCT 2 1995



DEPARTMENT OF THE NAVY

OFFICE OF NAVAL RESEARCH 800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660 2 2 SEP 1995

IN REPLY REFER TO

9 251:CLC

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

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Sincerely,

LAMBERT C. McCULLOUGH Grants Officer

Bv:	Date:	
Acknowledgement of Receipt		
Enclosure	,	